

## OIB - HU-25A Guardian #524 07/25/17 Science Report

**Aircraft:** [HU-25A Guardian - LaRC #524](#) ([See full schedule](#))

**Date:** Tuesday, July 25, 2017

**Mission:** OIB

**Mission Location:** Greenland

**Mission Summary:**

OIB flew the Greeley North mission today. This mission expands our flight coverage as far west as cloud conditions allow us in the Arctic Ocean north of Ellesmere Island's Greeley Fjord. Part of the flight followed advected sea ice from the CryoVEx-2 and South Basin Transect spring missions. We also overflew two buoy sites provided by Ignatius Rigor at 13:44:04Z and 13:46:31Z.

Weather was overcast during the western part of the flight and cleared towards the east. Our nominal flight altitude was under all clouds during the mission for another good flight without data loss due to weather. The DMS camera had an error near the start of the eastern line and had to be swapped out which caused about 20 minutes of data loss.

Some opportunistic data over ice on Ellesmere Island was collected as well.

Data volumes/time

ATM: 42 Gb

FLIR: 3.7 Gb

DMS: 25.3 Gb

Headwall: 44 Gb

data on: 11:39

data off: 13:57

**Submitted by:** Nathan T. Kurtz on 07/25/17

**File:**



[greeley\\_north\\_map.pdf](#)

**Related Flight Report:**

### HU-25A Guardian #524 07/25/17

**Flight Number:** OIB Summer Science Data Flight #5 & #6

**Payload Configuration:** ATM

**Nav Data Collected:** No

**Total Flight Time:** 7.2 hours

**Submitted by:** Luci Crittenden on 07/25/17

**Flight Segments:**

<b>From:</b>	BGTL	<b>To:</b>	BGTL
<b>Start:</b>	07/25/17 11:10 Z	<b>Finish:</b>	07/25/17 14:55 Z
<b>Flight Time:</b>	3.7 hours		
<b>Log Number:</b>	<a href="#">17F001</a>	<b>PI:</b>	Nathan Kurtz
<b>Funding Source:</b>	Thomas Wagner - NASA - SMD - ESD Cryospheric Science		
<b>Purpose of Flight:</b>	Science		
<b>Comments:</b>	The HU-25A Falcon completed 2 data flights today in support of Operation IceBridge in Thule, Greenland. Data Flight #5 was the Greeley North mission.		
<b>From:</b>	BGTL	<b>To:</b>	BGTL
<b>Start:</b>	07/25/17 15:50 Z	<b>Finish:</b>	07/25/17 19:22 Z
<b>Flight Time:</b>	3.5 hours		
<b>Log Number:</b>	<a href="#">17F001</a>	<b>PI:</b>	Nathan Kurtz
<b>Funding Source:</b>	Thomas Wagner - NASA - SMD - ESD Cryospheric Science		
<b>Purpose of Flight:</b>	Science		

**Comments:** and Data Flight #6 was the Convergence West 2 mission.

**Flight Hour Summary:**

	<b>17F001</b>
<b>Flight Hours Approved in SOFRS</b>	44.2
<b>Total Used</b>	39.5
<b>Total Remaining</b>	4.7

**17F001 Flight Reports**

<b>Date</b>	<b>Flt #</b>	<b>Purpose of Flight</b>	<b>Duration</b>	<b>Running Total</b>	<b>Hours Remaining</b>	<b>Miles Flown</b>
<a href="#">07/10/17</a>	OIB Summer Science ICF	Check	3.7	3.7	40.5	
<a href="#">07/12/17</a>	2017 OIB Summer Science Transit	Transit	2.9	6.6	37.6	
<a href="#">07/12/17</a>	2017 OIB Summer Science Transit	Transit	2.3	8.9	35.3	
<a href="#">07/13/17</a>	2017 OIB Summer Science Transit BGSF-BGTL	Transit	1.9	10.8	33.4	
<a href="#">07/17/17</a>	OIB Summer Science Data Flight#1	Science	3.8	14.6	29.6	
<a href="#">07/18/17</a>	OIB Summer Science Data Flight #2	Science	3.7	18.3	25.9	
<a href="#">07/19/17</a>	OIB Summer Science Data Flight #3	Science	2.7	21	23.2	
<a href="#">07/24/17</a>	OIB Summer Science Data Flight #4	Science	3.9	24.9	19.3	
<a href="#">07/25/17</a>	OIB Summer Science Data Flight #5 & #6	Science	3.7	28.6	15.6	
<a href="#">07/25/17</a>	OIB Summer Science Data Flight #5 & #6	Science	3.5	32.1	12.1	
<a href="#">07/26/17</a>	OIB Transit Legs BGTL-BGSF-KBGR	Transit	2	34.1	10.1	
<a href="#">07/26/17</a>	OIB Transit Legs BGTL-BGSF-KBGR	Transit	3.7	37.8	6.4	
<a href="#">07/27/17</a>	OIB Transit Leg KBGR-KLFI	Transit	1.7	39.5	4.7	

*Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.*

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